

PTO/SB/08B (08-03)

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Substitute for Form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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**Complete if Known**

Application Number	10/634,548
Filing Date	05 August 2003
First Named Inventor	NORRIS et al.
Art Unit	1638
Examiner Name	
Attorney Docket Number	REN-01-125-US

Sheet	1	of	1
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**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
PTB	c	International Search Report, PCT/03/25276, pp. 1-5 (January 10, 2005)	
↓	c	BEVAN et al., Database NCBI, Accession No. ATT32M21 (Mar 2000)	

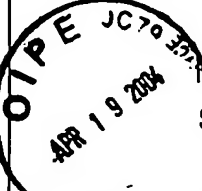
Examiner Signature	Phuong T Ben	Date Considered	3/18/06
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2.32) PATENT AND TRADEMARK OFFICE 	ATTY. DOCKET NO. REN-01-125-US		SERIAL NO. 10/634,548
	APPLICANT NORRIS et al.		
	FILING DATE August 5, 2003	GROUP 1638	

INFORMATION DISCLOSURE  
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### U.S. PATENT DOCUMENTS

	A						
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### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	B						
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	B						
	B						
	B						
	B						
	B						

### OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

PTB	C	BOWIE et al., "Deciphering the Message in Protein Sequences: Tolerance to Amino Acid Substitutions", Science, 247:1306-1310 (1990)
↓	C	McCONNELL et al., "Role of <i>Phabulosa</i> and <i>Phavoluta</i> in determining radial patterning in shoots", Nature, 411(6838): 709-713 (2001)
↓	C	BAKER et al., NCBI Accession Number X64451 (Dec 1993)
	C	
	C	

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(Form PTO-1449 [6-4])

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"RELATED" U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
PTB	A	2002/0069426	06 June 02	Boronat et al.			
	A	2002/0108148	08 Aug 02	Boronat et al.			
	A	2003/0148300	07 Aug 03	Valentin et al.			
	A	2003/0150015	07 Aug 03	Norris et al.			
	A	2003/0154513	14 Aug 03	van Eenennaam et al.			
	A	2003/0166205	04 Sep 03	van Eenennaam et al.			
	A	2003/0170833	11 Sep 03	Lassner et al.			
	A	2003/0176675	18 Sep 03	Valentin et al.			
	A	2003/0213017	13 Nov 03	Valentin et al.			
	A	2004/0018602	29 Jan 04	Lassner et al.			
	A	2004/0045051	04 Mar 04	Norris et al.			

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	A	4,727,219	23 Feb 88	Brar et al.			
	A	5,304,478	19 Apr 94	Bird et al.			
	A	5,429,939	04 Jul 95	Misawa et al.			
	A	5,432,069	11 Jul 95	Grüniger et al.			
	A	5,545,816	13 Aug 96	Ausich et al.			
	A	5,618,988	08 Apr 97	Hauptmann et al.			
	A	5,684,238	04 Nov 97	Ausich et al.			
	A	5,693,507	02 Dec 97	Daniell et al.			
	A	5,750,865	12 Mar 98	Bird et al.			
	A	5,792,903	11 Aug 98	Hirschberg et al.			
	A	5,876,964	02 Mar 99	Croteau et al.			
	A	5,908,940	01 Jun 99	Lane et al.			
	A	6,281,017	28 Aug 01	Croteau et al.			
	A	6,303,365	16 Oct 01	Martin et al.			
✓	A	6,541,259	01 Apr 03	Lassner et al.			

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	<b>APPLICANT</b> NORRIS et al.	
	<b>FILING DATE</b> August 5, 2003	<b>GROUP</b> 1638

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
PTB	B	2,339,519	17 Feb 00	Canada			Eng Version of WO 00/08169
	B	2,343,919	30 Mar 00	Canada			Eng Version of WO 00/17233
	B	2,372,332	02 Nov 00	Canada			Eng Version of WO 00/65036
	B	1 033 405 A2	06 Sep 00	EPO			
	B	0 674 000 A2	27 Sep 95	EPO			
	B	0 531 639 A2 & A3	17 Mar 93	EPO			
	B	0 723 017 A2	24 Jul 96	EPO			
	B	0 763 542 A2	19 Mar 97	EPO			
	B	1 063 297 A1	27 Dec 00	EPO			NO
	B	2 778 527		FR			YES
	B	DE 198 35 219 A1	05 Aug 98	German/English			YES=CA2339519
	B	560,529	07 Apr 44	Great Britain			
	B	WO 00/01650	13 Jan 00	PCT			
	B	WO 00/08169	17 Feb 00	PCT			YES=CA2339519
	B	WO 00/08187	17 Feb 00	PCT			
	B	WO 00/10380	02 Mar 00	PCT			
	B	WO 00/11165	02 Mar 00	PCT			
	B	WO 00/14207	16 Mar 00	PCT			
	B	WO 00/17233	30 Mar 00	PCT			YES=CA2343919
	B	WO 00/22150 A3	20 Apr 00	PCT			
	B	WO 00/28005	18 May 00	PCT			
	B	WO 00/32757 A2 & A3	08 Jun 00	PCT			
	B	WO 00/34448	15 Jun 00	PCT			YES
	B	WO 00/42205 A2 & A3	20 Jul 00	PCT			
✓	B	WO 00/46346	10 Aug 00	PCT			YES

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
PTB	B	WO 00/61771	19 Oct 00	PCT			
	B	WO 00/63389	26 Oct 00	PCT			
	B	WO 00/63391	26 Oct 00	PCT			
	B	WO 00/65036 A2 & A3	02 Nov 00	PCT			YES CA 2372332
	B	WO 00/68393	16 Nov 00	PCT			
	B	WO 01/04330	18 Jan 01	PCT			
	B	WO 01/09341	08 Feb 01	PCT			
	B	WO 01/12827	22 Feb 01	PCT			
	B	WO 01/21650	29 Mar 01	PCT			
	B	WO 01/44276	21 Jun 01	PCT			
	B	WO 01/62781	30 Aug 01	PCT			Partial
	B	WO 01/79472	25 Oct 01	PCT			
	B	WO 01/88169 A2 & A3	22 Nov 01	PCT			
	B	WO 02/00901 A1	03 Jan 02	PCT			YES
	B	WO 02/26933	04 Apr 02	PCT			
	B	WO 02/29022	11 Apr 02	PCT			
	B	WO 02/31173	18 Apr 02	PCT			YES
	B	WO 02/33060	25 Apr 02	PCT			
	B	WO 02/46441	13 Jun 02	PCT			
	B	WO 02/072848	19 Sep 02	PCT			
	B	WO 02/089561	14 Nov 02	PCT			
	B	WO 03/034812	01 May 03	PCT			
	B	WO 03/047547	12 Jun 03	PCT			
	B	WO 91/02059	21 Feb 91	PCT			
	B	WO 91/09128	27 Jun 91	PCT			
	B	WO 91/13078	05 Sep 91	PCT			
	B	WO 93/18158	16 Sep 93	PCT			
	B	WO 94/11516	26 May 94	PCT			
✓	B	WO 94/12014	09 Jun 94	PCT			

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PTB	B	WO 94/18337	18 Aug 94	PCT			
	B	WO 95/08914	06 Apr 95	PCT			
	B	WO 95/18220	06 Jul 95	PCT			Abstract
	B	WO 95/23863	08 Sep 95	PCT			
	B	WO 95/34668	21 Dec 95	PCT			
	B	WO 96/02650	01 Feb 96	PCT			
	B	WO 96/06172	29 Feb 96	PCT			
	B	WO 96/13149	09 May 96	PCT			
	B	WO 96/13159	09 May 96	PCT			
	B	WO 96/36717 A2 & A3	21 Nov 96	PCT			
	B	WO 96/38567	05 Dec 96	PCT			US equivalent
	B	WO 97/17447	15 May 97	PCT			
	B	WO 97/27285	31 Jul 97	PCT			
	B	WO 97/49816	31 Dec 97	PCT			
	B	WO 98/04685	05 Feb 98	PCT			
	B	WO 98/06862	19 Feb 98	PCT			
	B	WO 98/18910	07 May 98	PCT			
	B	WO 99/04021	28 Jan 99	PCT			
	B	WO 99/04622	04 Feb 99	PCT			
	B	WO 99/06580	11 Feb 99	PCT			
	B	WO 99/07867	18 Feb 99	PCT			
	B	WO 99/11757	11 Mar 99	PCT			YES
	B	WO 99/19460	22 Apr 99	PCT			
	B	WO 99/55889	04 Nov 99	PCT			
	B	WO 99/58649	18 Nov 99	PCT			

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

PTB	c	ADDLESEE et al., "Cloning, sequencing and functional assignment of the chlorophyll biosyntheses gene, <i>chlP</i> , of <i>Synechocystis</i> sp. PCC 6803", FEBS Letters 389 (1996) 126-130
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PTB	c	ARANGO <i>et al.</i> , "Tocopherol synthesis from homogentisate in <i>Capsicum annuum</i> L. (yellow pepper) chromoplast membranes: evidence for tocopherol cyclase", <i>Biochem J.</i> , 336:531-533 (1998)
	c	ARIGONI <i>et al.</i> , "Terpenoid biosynthesis from 1-deoxy-D-xylulose in higher plants by intramolecular skeletal rearrangement", <i>Proc. Natl. Acad. Sci. USA</i> , 94:10600-10605 (1997)
	c	BAKER <i>et al.</i> , "Sequence and characterization of the <i>gcpE</i> gene of <i>Escherichia coli</i> ", <i>FEMS Microbiology Letters</i> , 94:175-180 (1992)
	c	BAYLEY <i>et al.</i> , "Engineering 2,4-D resistance into cotton," <i>Theor Appl Genet</i> , 83:645-649 (1992)
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	c	BEVAN, M., "Binary <i>Agrobacterium</i> vectors for plant transformation", <i>Nucleic Acids Research</i> , 12:8711-8721 (1984)
	c	BEYER <i>et al.</i> , "Phytoene-forming activities in wild-type and transformed rice endosperm," <i>IRRN</i> 21:2-3, p 44-45 (August-December 1996)
	c	BORK <i>et al.</i> , "Go hunting in sequence databases but watch out for the traps", <i>TIG</i> 12, 10:425-427 (October 1996)
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	c	BRAMLEY <i>et al.</i> , "Biochemical characterization of transgenic tomato plants in which carotenoid synthesis has been inhibited through the expression of antisense RNA to <i>pTOM5</i> ," <i>The Plant Journal</i> , 2(3), 343-349 (1992)
	c	BREITENBACH <i>et al.</i> , "Expression in <i>Escherichia coli</i> and properties of the carotene ketolase from <i>Haematococcus pluvialis</i> ," <i>FEMS Microbiology Letters</i> 140, 241-246 (1996)
	c	BROUN <i>et al.</i> , "Catalytic Plasticity of Fatty Acid Modification Enzymes Underlying Chemical Diversity of Plant Lipids," <i>Science</i> , 282:1315-1317 (1998)
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	c	CAHOON <i>et al.</i> , "Production of Fatty Acid Components of Meadowfoam Oil in Somatic Soybean Embryos," <i>Plant Physiology</i> , 124:243-251 (2000)
	c	CHAUDHURI <i>et al.</i> , "The purification of shikimate dehydrogenase from <i>Escherichia coli</i> ," <i>Biochem. J.</i> , 226:217-223 (1985)
	c	CHENG <i>et al.</i> , "Highly Divergent Methyltransferases Catalyze a Conserved Reaction in Tocopherol and Plastoquinone Synthesis in Cyanobacteria and Photosynthetic Eukaryotes", <i>The Plant Cell</i> , 15:2343-2356 (2003)
	c	COLLAKOVA <i>et al.</i> , "Isolation and Functional Analysis of Homogentisate Phytoltransferase from <i>Synechocystis</i> sp. PCC 6803 and <i>Arabidopsis</i> ", <i>Plant Physiology</i> , 127:1113-1124 (2001)

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PTB	c	COLLAKOVA <i>et al.</i> , "Homogentisate Phytoltransferase Activity is Limiting for Tocopherol Biosynthesis in Arabidopsis", Plant Physiology, 131:632-642 (Feb. 2003)
	c	COLLAKOVA <i>et al.</i> , "Isolation and Characterization of Tocopherol Prenyl Transferase From Synechocystis and Arabidopsis", Poster Abstract see REN-01-026
	c	COOK <i>et al.</i> , "Nuclear Mutations affecting plastoquinone accumulation in maize", Photosynthesis Research, 31:99-111 (1992)
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	c	d'AMATO <i>et al.</i> , "Subcellular localization of chorismate-mutase isoenzymes in protoplasts from mesophyll and suspension-cultured cells of <i>Nicotiana glauca</i> ", Planta, 162:104-108 (1984)
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	c	DUNCAN <i>et al.</i> , "The overexpression and complete amino acid sequence of <i>Escherichia coli</i> 3-dehydroquinase", Biochem. J., 238:475-483 (1986)
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	c	ELLIOTT, Thomas, "A Method for Constructing Single-Copy <i>lac</i> Fusions in <i>Salmonella typhimurium</i> and Its Application to the <i>hemA-prfA</i> Operon", Journal of Bacteriology, 174:245-253 (1992)
	c	EISENREICH <i>et al.</i> , "The deoxyxylulose phosphate pathway of terpenoid biosynthesis in plants and microorganisms", Chemistry & Biology, 5(9):R221-R233 (1998)
	c	ERICSON <i>et al.</i> , "Analysis of the promoter region of napin genes from <i>Brassica napus</i> demonstrates binding of nuclear protein <i>in vitro</i> to a conserved sequence motif", Eur. J. Biochem., 197:741-746 (1991)
	c	ESTÉVEZ <i>et al.</i> , "1-Deoxy-D-xylulose-5-phosphate Synthase, a Limiting Enzyme for Plastidic Isoprenoid Biosynthesis in Plants", The Journal of Biological Chemistry, 276(25):22901-22909 (2001)
	c	FELLERMEIER <i>et al.</i> , "Cell-free conversion of 1-deoxy-D-xylulose 5-phosphate and 2-C-methyl-D-erythritol 4-phosphate into $\beta$ -carotene in higher plants and its inhibition by fosmidomycin", Tetrahedron Letters, 40:2743-2746 (1999)
	c	FIEDLER <i>et al.</i> , "The formation of homogentisate in the biosynthesis of tocopherol and plastoquinone in spinach chloroplasts", Planta, 155:511-515 (1982)
✓	c	FOURGOUX-NICOL <i>et al.</i> , "Isolation of rapeseed genes expressed early and specifically during development of the male gametophyte", Plant Molecular Biology, 40:857-872 (1999)

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PTB	c	FRASER <i>et al.</i> , "Enzymic confirmation of reactions involved in routes to astaxanthin formation, elucidated using a direct substrate <i>in vitro</i> assay", <i>Eur. J. Biochem.</i> , 252:229-236 (1998)
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<b>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE</b> (Rev. 2.32) <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> REN-01-125-US	<b>SERIAL NO.</b> 10/634,548
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PTB	c	TAKAHASHI <i>et al.</i> , "A 1-deoxy-D-xylulose 5-phosphate reductoisomerase catalyzing the formation of 2-C-methyl-D-erythritol 4-phosphate in an alternative nonmevalonate pathway for terpenoid biosynthesis", <i>Proc. Natl. Acad. Sci. USA</i> , 95:9879-9884 (1998)
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Examiner	PTB	Date Considered	3/18/06
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(Form PTO-1449 [6-4])

<b>FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE</b> (Rev. 2.32) <b>PATENT AND TRADEMARK OFFICE</b>  <b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b>  (Use several sheets if necessary)	<b>ATTY. DOCKET NO.</b> REN-01-125-US	<b>SERIAL NO.</b> 10/634,548
	<b>APPLICANT</b> NORRIS et al.	
	<b>FILING DATE</b> August 5, 2003	<b>GROUP</b> 1638

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	<b>FILING DATE</b> August 5, 2003	<b>GROUP</b> 1638

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<b>Examiner</b> PBM	<b>Date Considered</b> 3/18/06
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<b>INFORMATION DISCLOSURE</b> <b>STATEMENT BY APPLICANT</b> (Use several sheets if necessary)	<b>APPLICANT</b> NORRIS et al.	
	<b>FILING DATE</b> August 5, 2003	<b>GROUP</b> 1638

PTB	c	International Search Report, PCT/US01/42673, pp. 1-4
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